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# **WATER SUPPLY OUTLOOK FOR COLORADO AND NEW MEXICO**



**U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE**

Collaborating with

**COLORADO STATE UNIVERSITY EXPERIMENT STATION  
STATE ENGINEER of COLORADO  
and STATE ENGINEER of NEW MEXICO**

AS OF  
**FEB. 1, 1975**

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

## TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

*Cover Photo: Cabins near Sacajawea Snow Course  
in Bridger Mountains, Montana.*

SCS PHOTO 11-P480-15

## PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 111, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	204 E. 5th. Ave., Room 217, Anchorage, Alaska 99501
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

## PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia



# **WATER SUPPLY OUTLOOK FOR COLORADO AND NEW MEXICO**

and  
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

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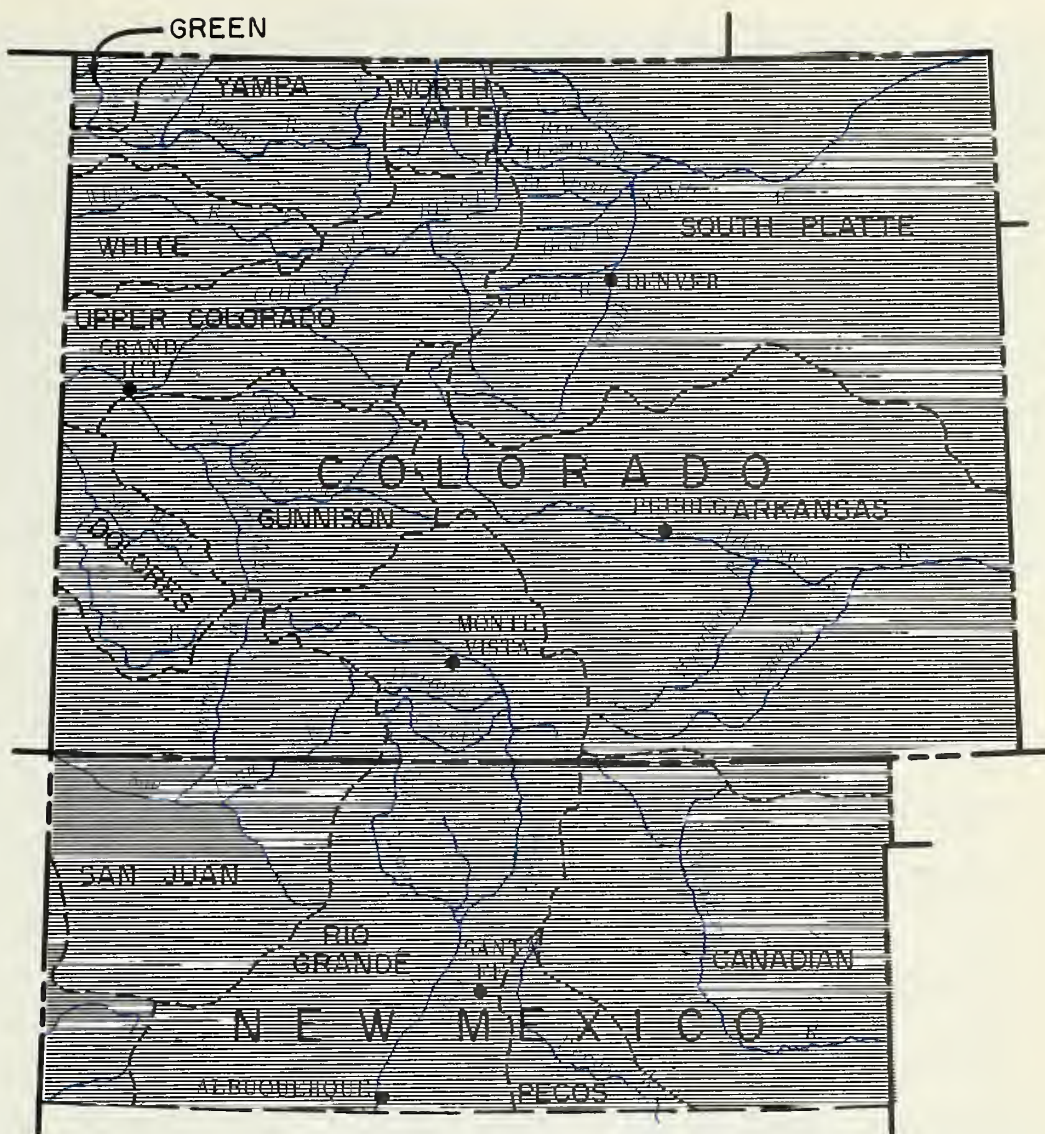
## WATER SUPPLY OUTLOOK BY MAJOR WATERSHED AREAS

WATERSHED I	- SOUTH PLATTE RIVER WATERSHED
	Describes water supply conditions in Fort Collins, Big Thompson, Longmont, Boulder Valley, Jefferson, Teller-Park, Douglas County, Morgan, Kiowa, West Arapahoe, West Adams, East Adams, Platte Valley, Southeast Weld, and West Greeley Soil Conservation Districts.
WATERSHED II	- ARKANSAS RIVER WATERSHED
	Describes water supply conditions in Lake County, Upper Arkansas, Fremont, Custer County Divide, Fountain Valley, Black Squirrel, Horse-Rush Creek, Central Colorado, Turkey Creek, Pueblo, Bessemer, Olney Boone, Cheyenne, Upper Huerfano, Stonewall, Spanish Peaks, Purgatoire, Bronson Trinchera, Western Baca, Southeastern Baca, Two Buttes, Bent, Timpas, Northeast Prowers, Prowers, Kiowa County, West Otero, East Otero, and Big Sandy Soil Conservation Districts.
WATERSHED III	- RIO GRANDE WATERSHED (COLORADO)
	Describes water supply conditions in Rio Grande, Center, Conejos, Mosco Hooper, Mt. Blanca, Sanchez, and Culebro Soil Conservation Districts.
WATERSHED IV	- RIO GRANDE WATERSHED (NEW MEXICO)
	Describes water supply conditions in Upper Chama, East Rio Arriba, Taos, Lindrith, Jemez, Santa Fe - Pojoaque, Sandoval, Tijeras, Cuba, and Edgewood Soil Conservation Districts.
WATERSHED V	- DOLORES, SAN JUAN, AND ANIMAS RIVERS WATERSHED
	Describes water supply conditions in San Miguel Basin. Dove Creek, Dolores, Mancos, LaPlata, Pine River, San Juan, San Miguel Basin, and Glade Park Soil Conservation Districts.
WATERSHED VI	- GUNNISON RIVER WATERSHED
	Describes water supply conditions in Delta, Gunnison, Cimarron, Shavano, and Uncompahgre Soil Conservation Districts.
WATERSHED VII	- COLORADO RIVER WATERSHED
	Describes water supply conditions in DeBeque, Plateau Valley, Lower Grand Valley, Bookcliff, Eagle County, Middle Park, Glade Park, Upper Grand Valley, South Side, and Mt. Sopris Soil Conservation Districts.
WATERSHED VIII	- YAMPA, WHITE AND NORTH PLATTE RIVERS WATERSHED
	Describes water supply conditions in Yampa, Moffat, West Routt, East Routt, North Park, White River, and Douglas Creek Soil Conservation Districts.
WATERSHED IX	- LOWER SOUTH PLATTE RIVER WATERSHED
	Describes water supply conditions in Sedgwick, South Platte, Haxton, Peetz, Padroni, Morgan, Rock Creek, and Yuma Soil Conservation Districts.
APPENDIX I	- SNOW SURVEY MEASUREMENTS
APPENDIX II	- SOIL MOISTURE MEASUREMENTS

# WATER SUPPLY OUTLOOK

as of

FEBRUARY 1, 1975



GENERALLY ADEQUATE  
100% OR MORE



LIMITED SHORTAGE  
75% - 100%



SEVERE SHORTAGE  
75% OR LESS



The map on this page indicates the most probable water supply as of the date of this report. Estimates assume average conditions of snow fall, precipitation and other factors from this date to the end of the forecast period. As the season progresses accuracy of estimates improve. In addition to expected streamflow, reservoir storage, soil moisture in irrigated areas, and other factors are considered in estimating water supply. Estimates apply to irrigated areas along the main streams and may not indicate conditions on small tributaries.

# WATER SUPPLY CONDITIONS

as of

FEBRUARY 1, 1975

THE 1975 SNOWPACK IS NEAR THE 1958-72 AVERAGE IN BOTH STATES. THE WINTER STARTED SLOW BUT THE LAST TWO WEEKS OF JANUARY HAVE ADDED MUCH NEEDED SNOW. IRRIGATED VALLEYS ARE GENERALLY DRY. LITTLE SNOW HAS FALLEN IN THE VALLEYS. DUE TO THE DRY SUMMER AND FALL, RESERVOIR STORAGE WAS DEPLETED. STORAGE IS DOWN FROM LAST YEAR. ADDITIONAL SNOW IS NEEDED IN BOTH STATES TO INSURE ADEQUATE WATER NEXT YEAR.



**COLORADO** -- COLORADO HAS AN UNUSUALLY EVEN SNOWPACK FROM BORDER

TO BORDER. NOWHERE DOES THE SNOWPACK INDICATE MUCH ABOVE OR BELOW NORMAL. ABOUT 50% OF OUR WINTER HAS PASSED, SO THERE IS STILL TIME TO IMPROVE THE OUTLOOK. THIS IS ONE OF THE DRIEST OF FALLS AND WINTERS THE PLAINS AREA HAS EXPERIENCED. HARDLY ANY SNOW HAS FALLEN ON THE IRRIGATED AND DRY LANDS OF THE EASTERN SLOPE. RESERVOIR STORAGE IS CONSIDERABLY LESS THAN LAST YEAR, BUT NEAR NORMAL EXCEPT IN THE ARKANSAS AND RIO GRANDE DRAINAGES. HERE STORAGE IS MUCH DEPLETED. MORE SNOW IS NEEDED.



**NEW MEXICO** -- SNOWPACK VARIES FROM A HIGH OF 150% ON THE PECOS

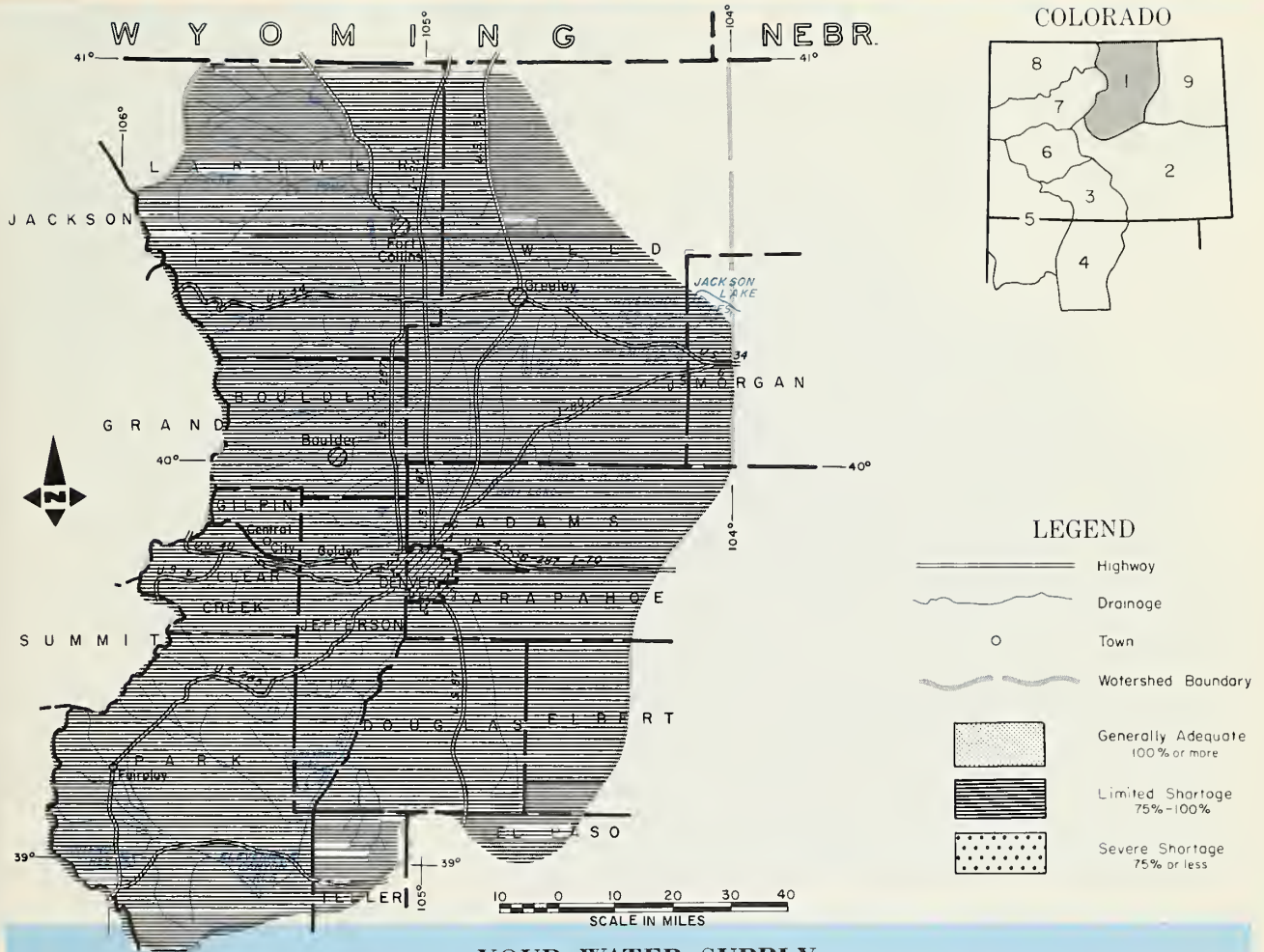
TO 50% ON RED RIVER, HOWEVER, THESE AVERAGES ARE BASED ON ONLY LIMITED INFORMATION. GENERALLY THE REST OF THE STATE HAS NEAR AVERAGE SNOWFALL. THE MAINSTEM OF THE RIO GRANDE HAS ABOUT 107% OF NORMAL AND IS ALMOST IDENTICAL TO LAST YEAR. SOIL MOISTURE IN THE STATE IS LISTED AS FAIR TO POOR. CARRYOVER STORAGE WAS DEPLETED IN 1974 AND IS NOW JUST NORMAL. CONSIDERABLY MORE SNOW IS NEEDED IN THE MOUNTAINS.



# WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE SOUTH PLATTE RIVER WATERSHED IN COLORADO

as of  
FEBRUARY 1, 1975

**U. S. DEPARTMENT OF AGRICULTURE · SOIL CONSERVATION SERVICE**  
CSU EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



## YOUR WATER SUPPLY

SNOWPACK ON THE SOUTH PLATTE WATERSHED IS NEARLY NORMAL. THE BEST SNOWPACK ON THE DRAINAGE IS ON THE HEADWATERS. THE NORTHERN TRIBUTARIES ARE SLIGHTLY BELOW NORMAL. SOIL MOISTURE IN THE MOUNTAINS IS POOR AND EXTREMELY POOR IN THE IRRIGATED AREAS. RESERVOIR STORAGE IS DOWN FROM LAST YEAR BUT STILL SLIGHTLY ABOVE AVERAGE. MORE SNOW IS NEEDED TO INSURE ADEQUATE WATER THIS SUMMER.

This report prepared by

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**U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE**

RODNEY M. ALT - AREA CONSERVATIONIST  
GREELEY, COLORADO

# STREAMFLOW FORECASTS (1000 Ac. Ft.)

FORECAST POINT	FORECAST	% of Average	Average <sup>†</sup>
No numerical forecasts issued until March 1, 1975.			

(1) Observed flow plus by-pass to power plants. (2) Observed flow minus trans-basin diversions plus municipal and irrigation diversions. (3) Observed flow minus diversion through August P. Gumlick Tunnel. (†) Observed flow plus change in storage in Price Reservoir.

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average <sup>†</sup>
Big Thompson	5	77	95
Boulder	3	83	97
Cache La Poudre	7	72	98
Clear Creek	6	95	110
Saint Vrain	2	106	108
South Platte	2	126	121

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average <sup>†</sup>
Antero	33.0	15.9	15.9	13.8
Barr Lake	32.2	25.4	24.1	20.9
Black Hollow	8.0	4.6	4.5	3.8
Boyd Lake	44.0	37.0	45.8	37.2
Cache La Poudre	9.5	6.6	7.2	7.6
Carter Lake	108.9	86.5	82.9	77.3
Chambers Lake	8.8	2.9	3.1	2.9
Cheeseman	79.0	41.0	52.5	56.1
Cobb Lake	34.3	16.7	19.2	15.1
Eleven Mile	97.8	96.5	97.8	87.2
Fossil Creek	11.6	6.9	7.4	6.8
Gross	43.1	21.9	28.6	28.9

# WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Bear Creek	Avg.	Avg.
Coal Creek	Avg.	Avg.
Deer Creek	Avg.	Avg.
North Fork of South Platte	Avg.	Avg.
North Fork of Cache La Poudre	Avg.	Avg.
Ralston Creek	Avg.	Avg.
Rock Creek	Avg.	Avg.

## SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average <sup>†</sup>
Big Thompson	3	105	78
Boulder	1	100	82
Cache La Poudre	2	81	81
Clear Creek	2	82	80
Saint Vrain	3	87	81
South Platte	2	75	80

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average <sup>†</sup>
Halligan	6.4	3.7	5.8	3.3
Horsetooth	143.5	81.5	106.6	85.5
Lake Loveland	14.3	10.0	10.1	8.8
Lone Tree	9.2	5.3	8.3	6.4
Mariano	5.4	5.3	5.0	4.8
Marshall	10.3	6.2	---	3.7
Marston	18.0	16.1	15.9	14.4
Milton	24.4	15.2	15.0	12.6
Standley	42.0	27.3	33.8	15.2
Terry Lake	8.2	5.7	5.1	4.7
Union	12.7	12.0	12.7	9.9
Windsor	18.6	9.7	10.2	10.1

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# STREAMFLOW FORECASTS (1000 Ac. Ft.)

FORECAST POINT	FORE-CAST	% of Average	Average <sup>†</sup>
No numerical forecasts issued until March 1, 1975.			

(1) Observed flow plus change in Clear Creek, Twin Lakes and Turquoise Reservoirs minus diversions through Busk Ivanhoe, Boustead, Divide, Twin Lakes and Homestake Tunnels and lying, Front Pass, Wurtz and Columbine ditches.

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average <sup>†</sup>
Arkansas	7	103	116
Cucharas	2	62	118
Purgatoire	1	106	---

# WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Apishapa	Exc.	Avg.
Fountain Creek	Exc.	Avg.
Grape Creek	Exc.	Avg.
Hardscrabble Creek	Exc.	Avg.
Huerfano	Exc.	Avg.
Monument Creek	Exc.	Avg.

## SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average <sup>†</sup>
Arkansas	3	73	82
Cucharas and Purgatoire	1	80	67

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average <sup>†</sup>
Adobe Creek	61.6	0.0	0.0	17.0
Clear Creek	11.4	2.5	4.0	8.1
Cucharas	40.0	0.0	5.4	2.8
Great Plains	150.0	0.0	26.1	49.3
Horse Creek	26.9	0.0	0.0	6.2

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average <sup>†</sup>
John Martin	353.9	4.0	14.0	85.0
Meredith	41.9	0.0	19.5	9.5
Model	15.0	0.0	0.4	3.0
Turquoise	130.0	38.6	59.5	---
Twin Lakes	57.9	18.0	35.0	25.6

<sup>†</sup> 1958-1972 period.

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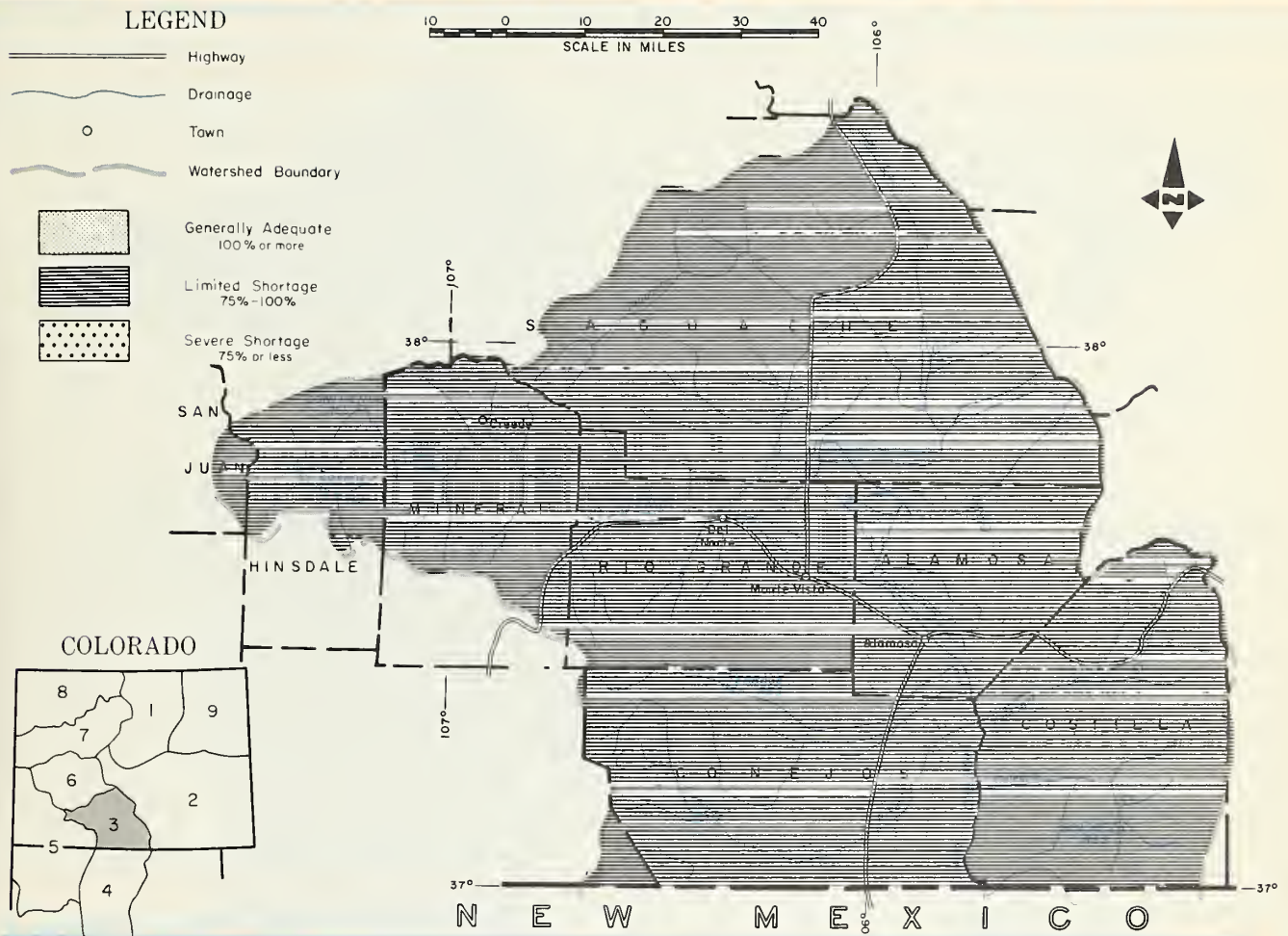
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# WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE UPPER RIO GRANDE WATERSHED IN COLORADO

as of  
FEBRUARY 1, 1975

**U. S. DEPARTMENT OF AGRICULTURE · SOIL CONSERVATION SERVICE**  
**CSU EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO**



## YOUR WATER SUPPLY

CURRENT SNOWPACK ON THE RIO GRANDE DRAINAGE IS NEAR NORMAL EXCEPT FOR CONEJOS RIVER WHICH HAS ONLY 76% OF THE 15 YEAR AVERAGE. VALLEY SOILS ARE DRY. A GOOD SNOW IS BADLY NEEDED. MOUNTAIN SOILS ARE ALSO IN POOR CONDITION. CARRYOVER STORAGE IS 72% OF THE 1958-72 PERIOD AND ONLY 40% OF LAST YEAR. CONSIDERABLY MORE SNOW IS NEEDED TO INSURE ADEQUATE WATER THIS SUMMER.

This report prepared by

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U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

# STREAMFLOW FORECASTS (1000 Ac. Ft.)

FORECAST POINT	FORECAST	% of Average	Average <sup>+</sup>
No numerical forecasts issued until March 1, 1975.			

(1) Observed flow plus change in storage in Platoro Reservoir. (2) Observed flow plus change in storage in Sanchez Reservoir. (3) Observed flow plus change in storage in Santa Maria, Rio Grande and Continental Reservoirs.

# SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average <sup>+</sup>
Alamosa	2	69	87
Conejos	3	65	76
Culebra	2	77	108
Rio Grande	9	102	107

# RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average <sup>+</sup>
Continental	26.7	1.9	1.4	4.7
Platoro	60.0	18.9	35.4	8.6
Rio Grande	45.8	5.3	28.7	19.2

# WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Saguache Creek	Fair	Fair
Sangre de Cristo Creek	Fair	Fair
Trinchera Creek	Fair	Fair

# SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average <sup>+</sup>
Alamosa	1	109	63
Conejos	1	114	100
Culebra	1	80	67
Rio Grande	2	87	66

# RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average <sup>+</sup>
Sanchez	103.2	4.4	19.5	13.3
Santa Maria	45.0	3.5	7.6	5.9
Terrace	17.7	7.3	8.8	5.3

<sup>+</sup> 1958-1972 period.

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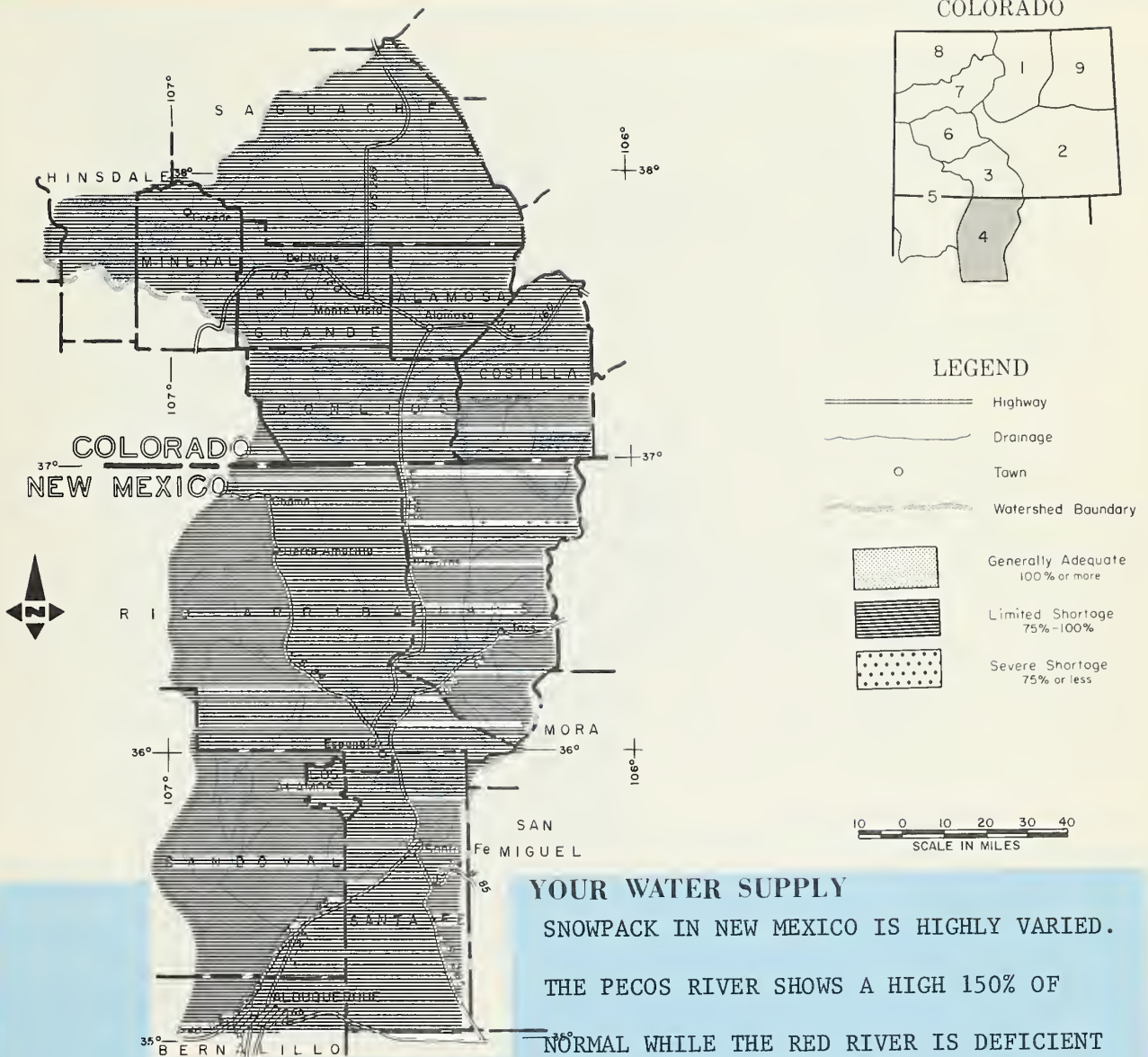
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# WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE RIO GRANDE WATERSHED IN NEW MEXICO

as of  
FEBRUARY 1, 1975

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CSU EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



This report prepared by

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U.S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE



# STREAMFLOW FORECASTS (1000 Ac. Ft.)

FORECAST POINT	FORECAST	% of Average	Average <sup>+</sup>
No numerical forecasts issued until March 1, 1975.			

The forecast of the Rio Grande at San Marcial is % of the Average used by the Elephant Butte Irrigation District. (1) Observed flow plus change in Costilla Reservoir. (2) Observed flow plus change in storage in El Vado and Abiqua Reservoir.

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average <sup>+</sup>
Pecos	1	84	148
Rio Chama	3	60	92
Rio Grande, NM	8	73	110
Red River	2	51	67

# WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Embudo	Avg.	Avg.
Jemez River	Avg.	Avg.
Mora River	Avg.	Avg.
Nambe Creek	Fair	Fair
Rio Ojo Caliente	Fair	Fair
Rio Pueblo de Taos	Fair	Fair
Santa Fe Creek	Avg.	Avg.

## SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average <sup>+</sup>
Pecos	2	81	100
Rio Chama	-	--	--
Rio Grande	3	94	100
Red River	1	93	67

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average <sup>+</sup>
Alamogordo	111	40	95	80
Caballo	344	40	42	50
Conchas	273	129	178	185

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average <sup>+</sup>
Elephant Butte	2195	427	841	442
El Vado	195	87	127	2
McMillan-Avalon	38	36	11	19

+ 1958-1972 period.

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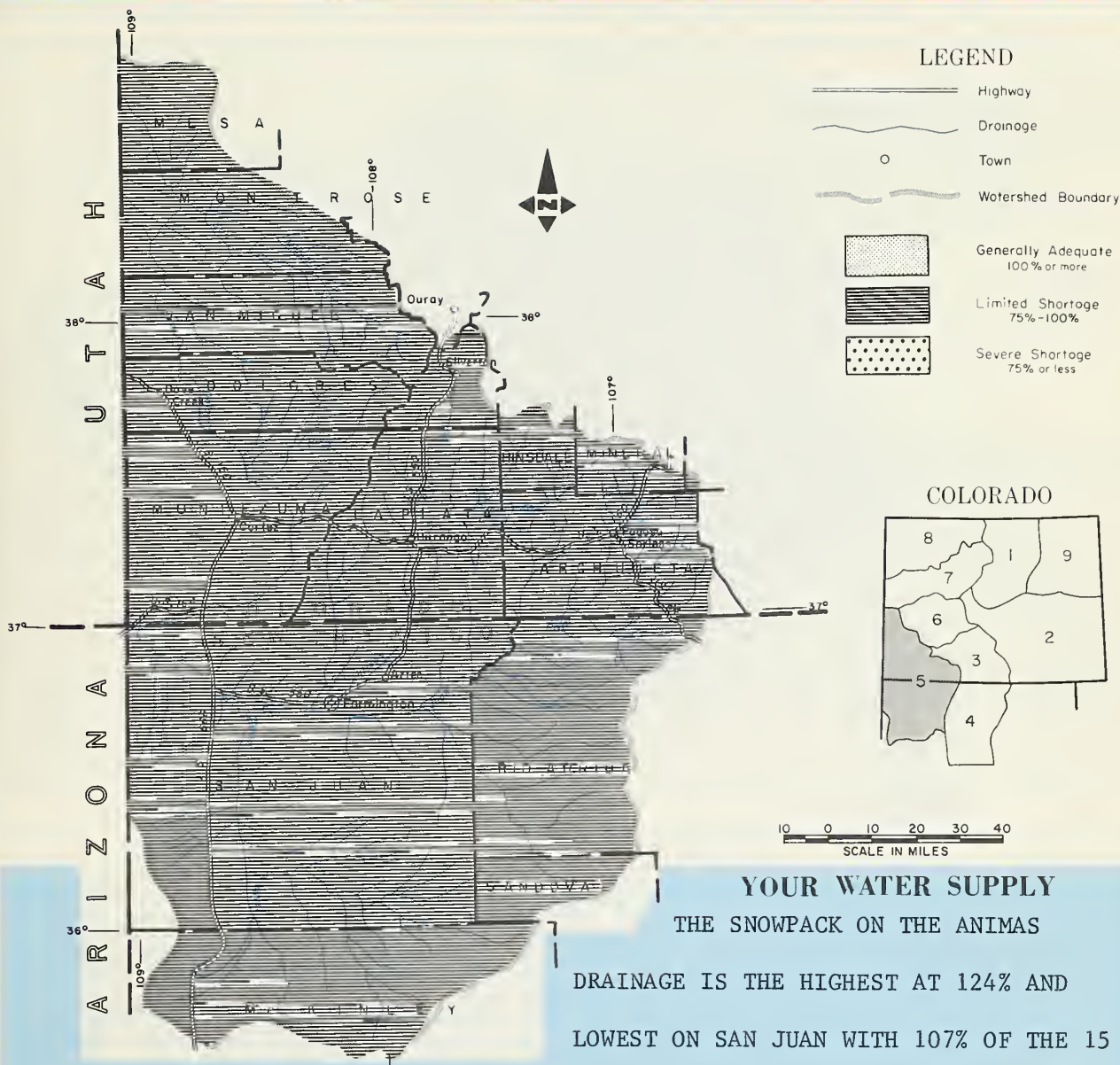
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# WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE SAN MIGUEL, DOLORES, ANIMAS, AND SAN JUAN WATERSHEDS IN COLORADO AND NEW MEXICO

as of  
FEBRUARY 1, 1975

**U. S. DEPARTMENT OF AGRICULTURE · SOIL CONSERVATION SERVICE**  
CSU EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



## YOUR WATER SUPPLY THE SNOWPACK ON THE ANIMAS

DRAINAGE IS THE HIGHEST AT 124% AND  
LOWEST ON SAN JUAN WITH 107% OF THE 15

YEAR NORMAL. ALL DRAINAGES HAVE LESS SNOW THIS YEAR THEN LAST. CARRYOVER STORAGE IN NAVAJO IS 958,000 ACRE FEET, CONSIDERABLY ABOVE NORMAL. OTHER RESERVOIRS IN THE BASIN ARE LOW. VALLEY SOILS ARE REPORTED AS DRY.

This report prepared by

JACK N. WASHICHECK and RONALD E. MORELAND  
SNOW SURVEY UNIT, SOIL CONSERVATION SERVICE  
DENVER, COLORADO

Issued by

M. D. BURDICK - STATE CONSERVATIONIST  
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**U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE**

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JAMES E. TATUM - AREA CONSERVATIONIST  
SANTA FE, NEW MEXICO

## WATER SUPPLY OUTLOOK

FORECAST POINT	FORE-CAST	% of Average	Average	+
<p>No numerical forecasts issued until March 1, 1975.</p>				

(1) Observed flow plus change in storage in Vallicita Reservoir.

## SOIL MOISTURE

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average +
Animas	6	120	124
Dolores	5	81	112
San Juan	5	89	107

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average †
Animas *	-	--	--
Dolores	3	213	40
San Juan *	-	--	--
*Meter malfunction.			

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average
Groundhog	22	9	--	9
Jackson Gulch	10	3	--	4
Lemon	40	6	19	19
Navajo	1696	958	1041	577
Vallecito	126	27	70	53

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average

+ 1958-1972 period.

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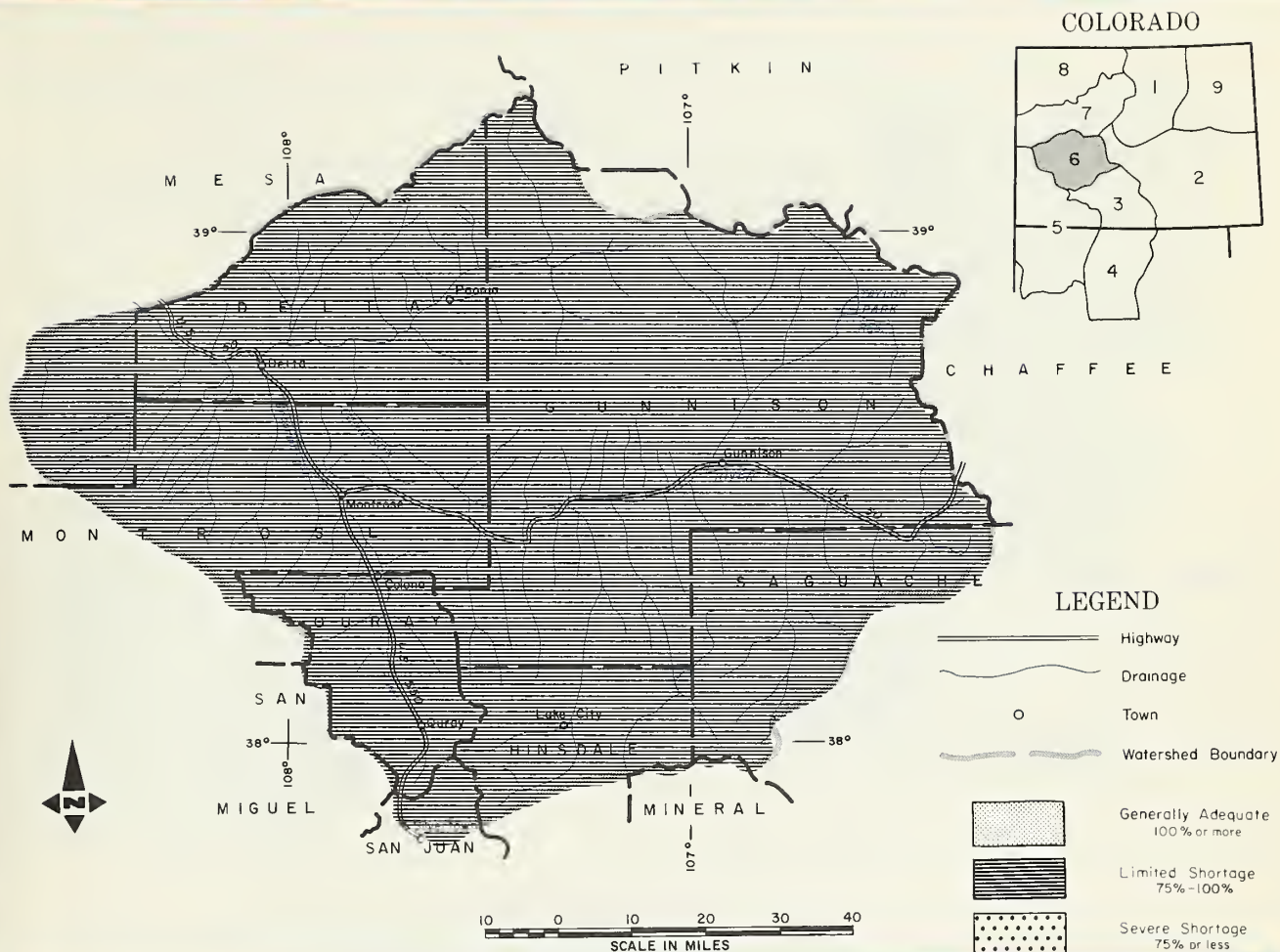
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# WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE GUNNISON RIVER WATERSHED IN COLORADO

as of  
FEBRUARY 1, 1975

**U.S. DEPARTMENT OF AGRICULTURE · SOIL CONSERVATION SERVICE**  
CSU EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



## YOUR WATER SUPPLY

THERE IS MORE SNOW REPORTED ON UNCOMPAHGRE CREEK THAN ANY OTHER BASIN IN THE STATE. SURFACE AND GUNNISON RIVER BASINS INDICATE ABOUT NORMAL SNOW. CARRY-OVER STORAGE IS JUST SLIGHTLY BELOW NORMAL. BLUE MESA CONTAINS 435,000 A.F. VALLEY SOIL MOISTURE IS REPORTED GOOD BY UNCOMPAHGRE VALLEY WATER USERS, BUT ONLY FAIR IN THE GUNNISON AREA.

This report prepared by

JACK N. WASHICHEK and RONALD E. MORELAND  
SNOW SURVEY UNIT, SOIL CONSERVATION SERVICE  
DENVER, COLORADO

Issued by

M. D. BURDICK - STATE CONSERVATIONIST  
DENVER, COLORADO

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GRAND JUNCTION, COLORADO

U.S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE



# STREAMFLOW FORECASTS (1000 Ac. Ft.)

FORECAST POINT	FORECAST	% of Average	Average <sup>†</sup>
No numerical forecasts issued until March 1, 1975.			

# WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
North Fork of Gunnison	Exc.	Avg.
Taylor	Exc.	Avg.

(1) Observed flow plus change in storage in Taylor Reservoir. (2) Observed flow plus change in storage in Blue Mesa, Morrow Point and Taylor Reservoirs. (3) Observed flow plus change in storage in Paonia Reservoir.

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average <sup>†</sup>
Gunnison	10	84	106
Surface Creek	3	86	94
Uncompahgre	3	102	134

## SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average <sup>†</sup>
Gunnison	1	77	100
Surface Creek*	-	--	--
Uncompahgre*	-	--	--

\*Station malfunction.

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average <sup>†</sup>
Blue Mesa	830	435	465	491
Morrow Point	121	115	115	100

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average <sup>†</sup>
Silver Jack	14	5	5	--
Taylor	106	51	63	63

<sup>†</sup> 1958-1972 period.

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# WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE COLORADO RIVER WATERSHED IN COLORADO

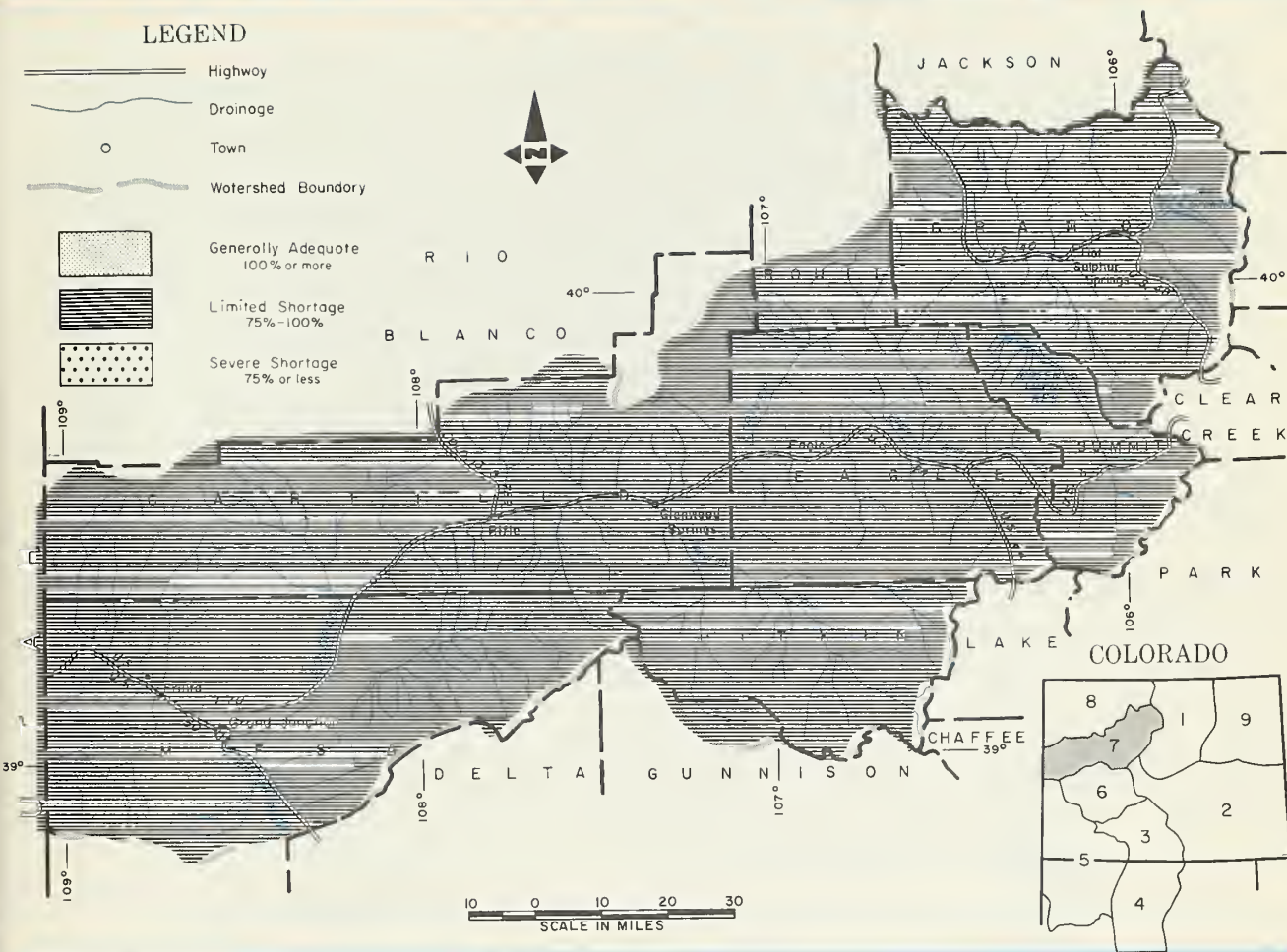
as of  
FEBRUARY 1, 1975

**U.S. DEPARTMENT OF AGRICULTURE · SOIL CONSERVATION SERVICE**  
CSU EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO

## LEGEND

-  Highway
-  Drainage
-  Town
-  Watershed Boundary

-  Generally Adequate  
100% or more
-  Limited Shortage  
75%-100%
-  Severe Shortage  
75% or less



## YOUR WATER SUPPLY

THE COLORADO RIVER BASIN HAS ABOUT NORMAL SNOW. IT VARIES FROM A HIGH OF 112% ON THE BLUE TO A LOW OF 91% ON PLATEAU AND WILLOW. MOUNTAIN SOILS ARE DRY. MOST IRRIGATED AREAS ARE REPORTING ONLY FAIR MOISTURE IN THEIR SOILS. CARRYOVER STORAGE IS DOWN SLIGHTLY FROM LAST YEAR BUT STILL 110% OF THE 15 YEAR AVERAGE.

This report prepared by

JACK N. WASHICHER and ROMALO E. MORELAND  
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DENVER, COLORADO

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GRAND JUNCTION, COLORADO

U.S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

# STREAMFLOW FORECASTS (1000 Ac. Ft.)

# WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

FORECAST POINT	FORECAST	% of Average	Average <sup>†</sup>
No numerical forecasts issued until March 1, 1975.			

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Brush Creek	Exc.	Avg.
Eagle River	Exc.	Avg.
Gypsum Creek	Exc.	Avg.

(1) Observed flow plus diversions through Roberts Tunnel and change in storage in Dillon Reservoir. (2) Observed flow corrected for change in storage in Lake Granby as furnished by U.S.B.R. and diversions by Adams Tunnel and Grand River Ditch. (3) Observed flow plus the changes as indicated in (1), (2) and (5) plus Moffat Ditch and change in Homestake, Williams Fork, Green Mt. and Willow Creek Reservoirs. (4) Observed flow plus diversions through Divide and Twin Lakes Tunnels plus change in storage in Ruedi Reservoir. (5) Observed flow plus diversions through August P. Gumlick Tunnel. (6) Observed flow plus the changes as indicated in (3) and (2).

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average <sup>†</sup>
Blue River	7	94	112
Colorado	18	85	108
Plateau	3	84	91
Roaring Fork	6	80	106
Williams Fork	3	73	107
Willow	2	66	91

## SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average <sup>†</sup>
Blue River	1	70	82
Colorado	3	83	89
Roaring Fork	1	84	67
Willow	1	70	62

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average <sup>†</sup>
Dillon	254	213	239	234
Granby	466	330	403	255
Green Mountain	147	77	84	77
Homestake	43	33	31	20

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average <sup>†</sup>
Ruedi	101	66	70	70
Williams Fork	97	43	51	34
Willow Creek	9	6	7	6
Vega	32	6	13	10

+ 1958-1972 period.

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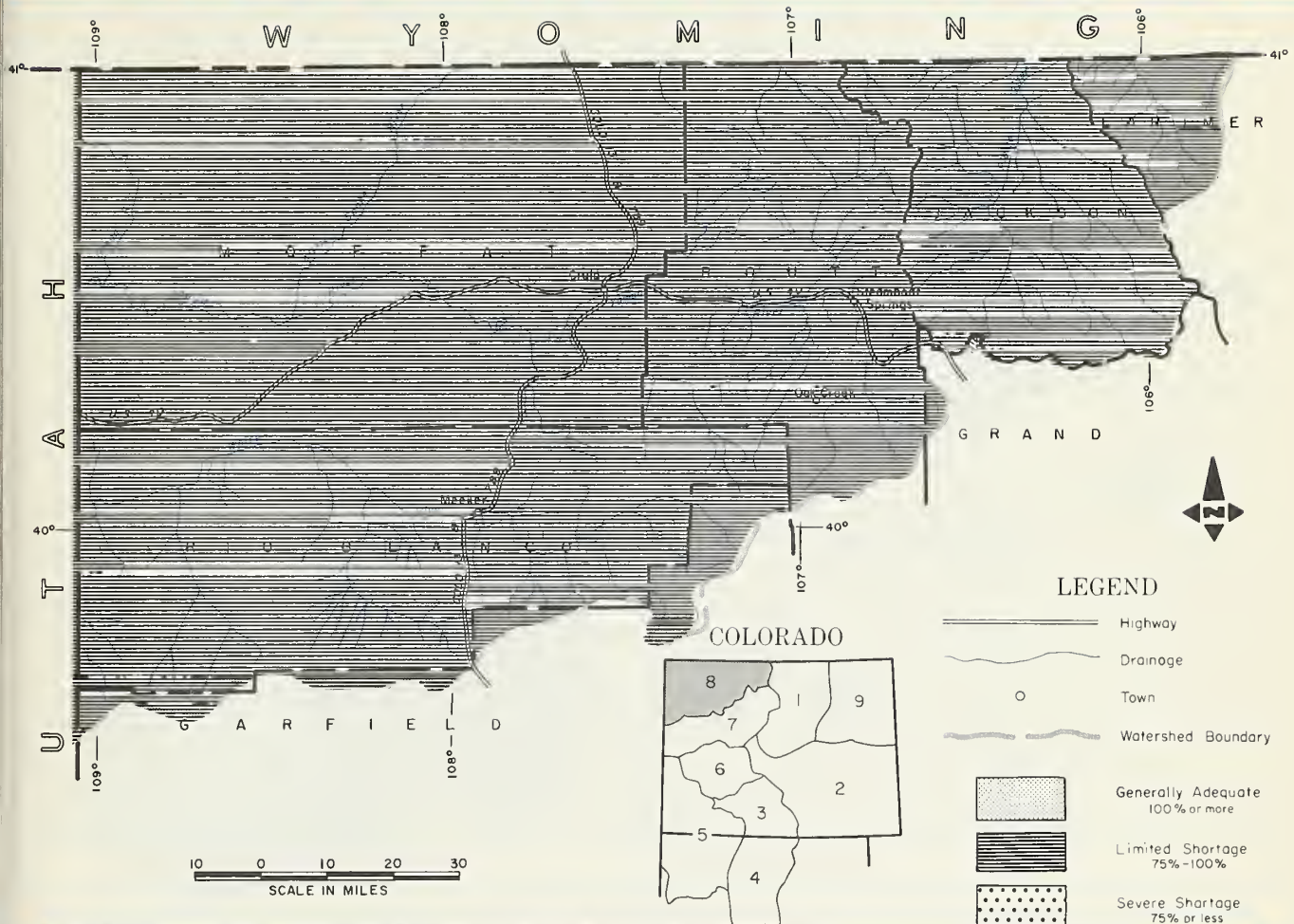
"The Conservation of Water begins with the Snow Survey"



# WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE YAMPA, WHITE, AND NORTH PLATTE RIVER WATERSHEDS IN COLORADO

as of  
FEBRUARY 1, 1975

U. S. DEPARTMENT OF AGRICULTURE · SOIL CONSERVATION SERVICE  
CSU EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



## YOUR WATER SUPPLY

SNOWFALL IN THE NORTHERN THIRD OF COLORADO IS SLIGHTLY ABOVE NORMAL EXCEPT ON THE LARAMIE RIVER BASIN WHERE IT IS ONLY 82% OF THE 15 YEAR NORMAL. VALLEY AREAS IN THIS PORTION OF THE STATE ARE DRY AND THE MOUNTAIN SOILS CONTAIN ONLY ABOUT 80% OF NORMAL SOIL MOISTURE. ADDITIONAL SNOW IS NEEDED TO ASSURE ADEQUATE WATER THIS SUMMER.

This report prepared by

JACK N. WASHICHER and RONALD E. MORELAND  
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U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE

# STREAMFLOW FORECASTS (1000 Ac. Ft.)

# WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

FORECAST POINT	FORECAST	% of Average	Average +
No numerical forecasts issued until March 1, 1975.			

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Canadian River	Avg.	Avg.
Hunt Creek	Avg.	Avg.
Illinois River	Avg.	Avg.
Michigan River	Avg.	Avg.
Oak Creek	Exc.	Avg.
Trout Creek	Exc.	Avg.

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average +
Elk	2	82	105
Laramie	1	62	82
North Platte	5	83	109
White	2	100	111
Yampa	4	102	128

## SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average +
Laramie	1	83	79
North Platte	2	72	78
Yampa	1	83	86

+ 1958-1972 period.

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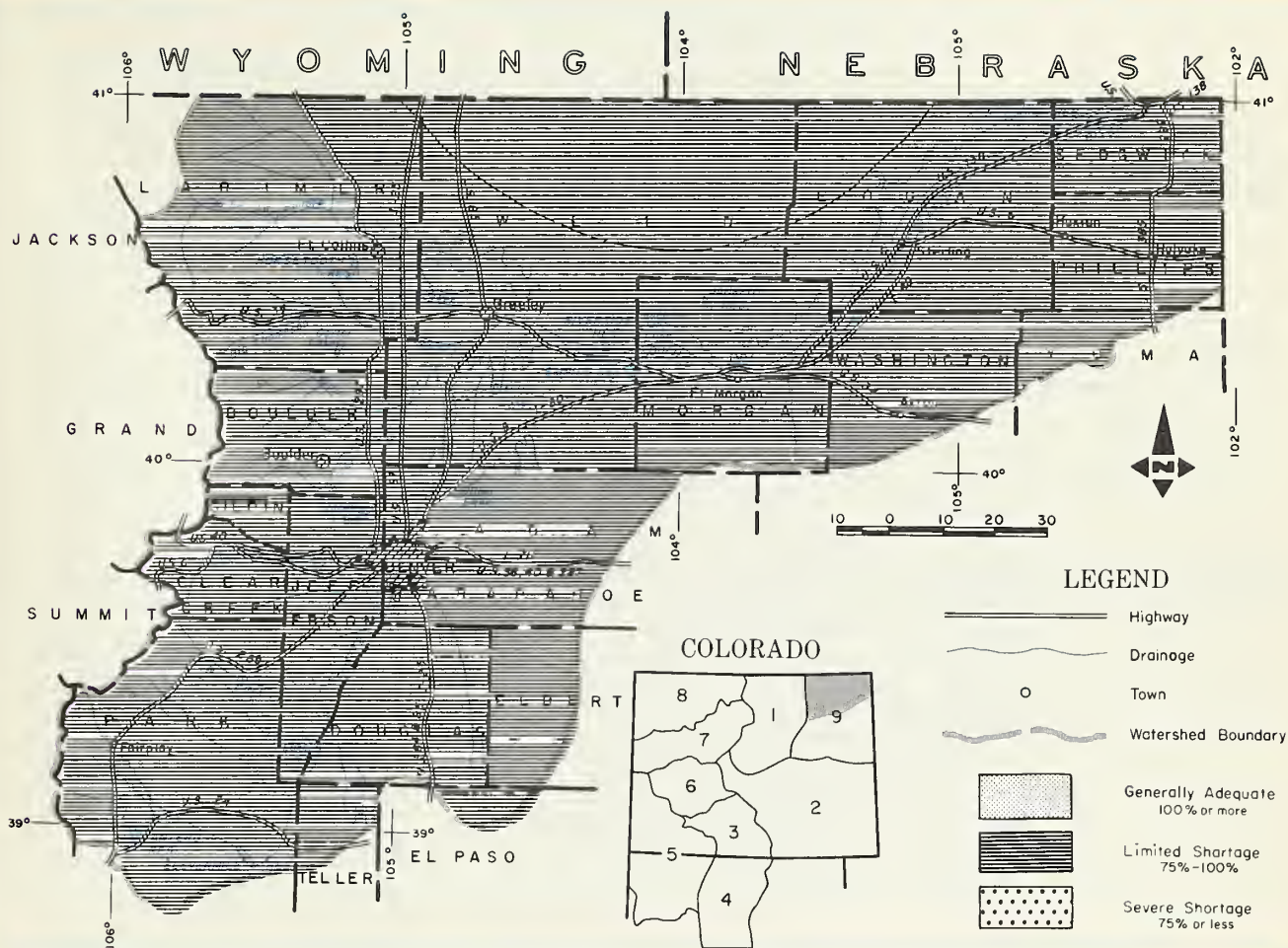
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# WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE LOWER SOUTH PLATTE RIVER WATERSHED IN COLORADO

as of  
FEBRUARY 1, 1975

**U. S. DEPARTMENT OF AGRICULTURE · SOIL CONSERVATION SERVICE**  
CSU EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



## YOUR WATER SUPPLY

THE SNOWPACK IN THE SOUTH PLATTE DRAINAGE IS NEAR NORMAL. THE NORTHERN TRIBUTARIES HAVE JUST SLIGHTLY LESS THAN NORMAL SNOW BUT THE MAINSTEM, CLEAR CREEK, AND SAINT VRAIN ARE SLIGHTLY ABOVE. SOIL IN THE IRRIGATED AREAS IS VERY DRY. A GOOD SNOW IS BADLY NEEDED. CARRYOVER STORAGE IS SLIGHTLY DOWN FROM LAST YEAR BUT STILL AT THE NEAR NORMAL LEVELS.

This report prepared by

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## STREAMFLOW FORECASTS (1000 Ac. Ft.)

FORECAST POINT	FORE-CAST	% of Average	Average +
No numerical forecasts issued until March 1, 1975.			

## WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
South Platte from Greeley to Ft. Morgan	Avg.	Fair
South Platte from Ft. Morgan to Sterling	Avg.	Fair
South Platte below Sterling	Avg.	Fair

(1) Observed flow plus by-pass to power plants. (2) Observed flow minus trans-basin diversions plus municipal and irrigation diversions. (3) Observed flow minus diversion through August P. Gumlick Tunnel. (4) Observed flow plus change in storage in Price Reservoir.

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average +
Big Thompson	5	77	95
Boulder	3	83	97
Cache La Poudre	7	72	98
Clear Creek	6	95	110
Saint Vrain	2	106	108
South Platte	2	126	121

## SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average +
Big Thompson	3	105	78
Boulder	1	100	82
Cache La Poudre	2	81	81
Clear Creek	2	82	80
Saint Vrain	1	100	82
South Platte	2	68	80

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average +
Carter	108.9	85.4	82.9	77.3
Cheeseman	79.0	41.0	52.5	56.1
Eleven Mile	97.8	96.5	97.8	87.2
Empire	37.7	6.6	5.3	26.5
Horsetooth	143.5	81.4	106.6	85.5

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average +
Jackson	35.4	26.0	24.6	28.0
Julesburg	28.2	19.8	19.8	20.1
Point of Rocks	70.0	57.1	69.8	53.4
Prewitt	32.8	28.4	22.0	15.9
Riverside	57.5	55.4	29.4	44.6

+ 1958-1972 period.

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# APPENDIX I

## SNOW COURSE MEASUREMENTS as of February 1, 1975

SNOW COURSE	CURRENT INFORMATION			PAST RECORD	
	DATE OF SURVEY	SNOW DEPTH (INCHES)	WATER CONTENT (INCHES)	WATER CONTENT (INCHES)	
				LAST YEAR	AVG. 68-72
NORTH PLATTE BASIN					
<u>Laramie River</u>					
Deadman Hill	1/29	38	8.5	13.5	10.4
McIntyre	NS			---	---
Roach	1/29	42	9.9	17.0	---
<u>North Platte River</u>					
Cameron Pass	1/30	53	17.8	20.5	16.5
Columbine Lodge	1/30	64	18.5	19.7	14.3
Northgate	1/30	16	3.6	6.1	3.8
Park View	1/28	26	5.5	7.2	5.8
Willow Cr. Pass (B)	1/28	30	7.1	10.0	7.7
SOUTH PLATTE BASIN					
<u>Boulder Creek</u>					
Baltimore	1/29	23	4.8	5.0	5.1
Boulder Falls	1/29	35	7.6	9.5	7.1
University Camp	1/29	46	10.1	12.5	10.9
<u>Big Thompson River</u>					
Deer Ridge	1/30	12	2.3	4.3	2.9
Hidden Valley	1/30	32	6.1	7.4	6.4
Lake Irene	1/28	52	12.5	15.4	13.8
Long's Peak	1/30	30	6.4	8.3	6.0
Two Mile	1/30	38	8.6	11.1	8.6
<u>Cache La Poudre</u>					
Bennett Creek	1/29	16	3.2	8.6	---
Big South	1/30	6	1.9	0.5	1.4
Cameron Pass	1/30	53	17.8	20.5	16.5
Chambers Lake	1/30	22	6.0	8.8	5.6
Deadman Hill	1/29	38	8.5	13.5	10.4
Hourglass Lake	1/29	19	3.6	7.8	---
Joe Wright	1/30	52	15.5	18.0	---
Lost Lake	1/30	31	7.5	10.4	7.7
Pine Creek	1/29	6	0.9	3.0	1.3
Red Feather	1/29	17	3.2	6.6	4.0
<u>Clear Creek</u>					
Baltimore (B)	1/29	23	4.8	5.0	5.1
Berthoud Falls	1/29	44	9.9	11.0	8.3
Empire	1/29	28	5.8	6.0	4.5
Grizzly Peak (B)	1/29	51	12.2	13.5	10.6
Loveland Lift	1/29	43	11.3	10.5	12.2
Loveland Pass	1/29	41	10.7	11.8	9.0
<u>St Vrain River</u>					
Copeland Lake	1/31	18	3.5	3.4	2.8
Ward	1/31	18	3.4	3.1	3.6
Wild Basin	NS			---	7.2
<u>South Platte River</u>					
Como	1/28	25	4.9	3.1	---
Geneva Park	1/28	18	2.8	2.3	---
Hoosier Pass	1/29	37	9.6	8.6	8.0
Horseshoe Mt.	1/27	42	8.9	6.4	---
Jefferson Creek	1/28	34	7.2	4.7	5.9
Mosquito	1/29	35	7.8	5.2	---
Trout Creek Pass	1/27	20	4.3	4.0	---
ARKANSAS BASIN					
<u>Arkansas River</u>					
Bigelow Divide	1/28	26	5.6	8.1	---
Cooper Hill (B)	1/31	37	7.4	9.0	6.9
East Fork	1/29	30	6.7	6.8	6.0
Four Mile Park	1/30	23	4.2	3.5	3.9
Fremont Pass	1/29	42	10.6	11.0	9.8
Garfield	1/30	39	11.0	10.8	8.5
Hermit Lake	1/29	29	7.3	9.0	---
Monarch Pass	1/30	50	13.7	12.9	10.3
Tennessee Pass	1/30	31	6.1	5.9	6.5
Twin Lakes Tunnel	1/24	22	4.4	7.9	6.0
Westcliffe	1/29	28	6.5	7.4	---

NOTE:

NS - No Survey  
(B) - On Adjacent Drainage

SNOW COURSE	CURRENT INFORMATION			PAST RECORD	
	DATE OF SURVEY	SNOW DEPTH (INCHES)	WATER CONTENT (INCHES)	WATER CONTENT (INCHES)	
				LAST YEAR	AVG. 68-72
<u>Cucharas River</u>					
Apishapa	1/29	19	5.3	9.3	4.5
Cucharas Creek	1/29	22	5.8	---	---
La Veta Pass (B)	1/29	24	6.6	9.9	5.6
<u>Purgatorie River</u>					
Bourbon	1/30	24	5.2	4.9	---
<b>RIO GRANDE BASIN-COLO</b>					
<u>Alamosa River</u>					
Silver Lakes	1/31	24	3.2	4.5	3.5
Summitville	1/29	47	10.2	14.9	11.9
<u>Conejos River</u>					
Cumbres	1/30	42	10.6	17.2	13.1
La Manga	1/30	47	8.9	15.8	---
Platoro	2/02	46	8.3	12.0	12.5
River Springs	1/29	19	3.7	5.6	4.3
<u>Culebra River</u>					
Brown Cabin	2/03	18	4.6	7.1	---
Cottonwood (B)	2/03	21	6.4	5.4	---
Culebra	2/03	30	5.8	6.3	5.6
La Veta Pass	1/29	24	6.6	9.9	5.6
Trinchera (B)	2/03	26	5.8	8.2	---
<u>Rio Grande</u>					
Cochetopa Pass	1/28	28	5.0	3.9	3.6
Grayback	1/29	38	7.4	11.5	---
Hiway	1/31	70	16.5	16.2	15.6
Lake Humphrey	1/30	33	5.1	3.7	4.8
Love Lake	1/30	37	7.3	4.4	---
Pass Creek	1/31	47	8.9	10.0	8.2
Pool Table	1/30	22	3.2	2.8	5.2
Porcupine	1/30	36	7.6	5.3	8.1
Santa Maria	1/31	31	5.9	3.9	3.3
Upper Rio Grande	1/30	38	6.7	4.7	5.8
Wolf Creek Pass	1/31	78	19.2	19.8	17.4
Wolf Cr. Sum. (B)	1/31	81	19.2	20.2	18.5
<b>RIO GRANDE BASIN - NM</b>					
<u>Pecos River</u>					
Panchuela	1/30	20	3.7	4.4	2.5
<u>Rio Chama</u>					
Bateman	1/28	28	6.1	8.2	---
Capulin Peak	1/30	17	3.0	4.9	3.5
Chama Divide	1/29	10	2.0	4.7	2.9
Chamita	1/31	28	5.9	8.6	5.5
<u>Rio Grande</u>					
Big Tesuque	1/29	17	3.4	6.8	4.0
Cordova	NS			---	6.2
Elk Cabin	1/27	18	4.7	5.6	2.7
La Cueva	1/27	14	3.1	5.2	---
Hopewell	1/29	35	7.8	14.0	---
Pajarito Peak	1/31	9	2.0	1.2	1.1
Payrole	1/29	23	5.0	7.4	6.1
Rio En Medio	1/29	21	5.0	9.0	6.0
Sandoval	1/31	19	3.9	3.5	3.5
Taos Canyon	1/23	17	3.8	5.8	2.7
Teakettle	1/29	24	4.9	6.8	---
Tres Ritos	1/30	22	4.4	4.6	3.3
<u>Rio Hondo</u>					
Taos Powderhorn	1/29	50	13.6	---	---
<u>Red River</u>					
Hematite Park	1/27	11	2.1	4.0	2.9
Red River	1/27	12	2.3	4.7	3.7



# APPENDIX I

SNOW COURSE MEASUREMENTS as of February 1, 1975

SNOW COURSE	CURRENT INFORMATION			PAST RECORD	
	DATE OF SURVEY	SNOW DEPTH (INCHES)	WATER CONTENT (INCHES)	WATER CONTENT (INCHES)	
				LAST YEAR	AVG. 58-72
SAN JUAN-DOLORES BASIN					
<u>Animas River</u>					
Cascade	1/30	42	9.6	9.6	8.0
Lemon	1/31	34	7.4	7.1	---
Mineral Creek	1/30	49	13.0	8.7	9.9
Molas Lake	1/30	38	10.1	10.5	8.7
Purgatory	1/30	58	15.2	12.4	---
Red Mountain Pass	1/30	82	23.0	18.8	19.0
Silverton Sub-Sta.	1/30	31	8.1	6.9	5.6
Spud Mountain	1/30	64	18.3	14.0	15.2
<u>Dolores River</u>					
Lizard Head	1/30	42	11.4	13.9	10.4
Lone Cone	1/29	41	10.6	13.9	11.8
Rico	1/30	21	5.4	8.5	5.6
Telluride	1/30	28	7.0	7.8	4.7
Trout Lake	1/30	40	11.2	11.9	8.1
<u>San Juan River</u>					
Chama Divide (B)	1/29	10	2.0	4.7	2.9
Chamita (B)	1/31	28	5.9	8.6	5.5
Upper San Juan	1/31	83	21.6	22.9	19.1
Wolf Cr. Pass (B)	1/31	78	19.2	19.8	17.4
Wolf Cr. Summit	1/31	81	19.2	20.2	18.5
GUNNISON BASIN					
<u>Gunnison River</u>					
Alexander Lake	1/30	43	11.3	14.1	12.7
Blue Mesa	NS			---	---
Butte	1/30	40	9.7	11.7	---
Cochetopa Pass (B)	1/28	28	5.0	3.9	3.6
Crested Butte	1/30	41	8.7	13.3	7.4
Keystone	1/29	55	13.7	16.7	13.1
Lake City	1/27	26	5.3	6.3	---
Mesa Lakes (B)	1/30	41	11.3	11.0	10.5
McClure Pass	1/29	42	10.8	13.3	11.1
Park Cone	1/29	31	5.9	8.3	6.1
Park Reservoir	1/31	53	12.8	16.2	14.6
Porphry Creek	1/30	50	13.0	13.6	10.0
Tomichi	1/30	42	10.7	11.9	8.1
<u>Surface Creek</u>					
Alexander Lake	1/30	43	11.3	14.1	12.7
Mesa Lakes (B)	1/30	41	11.3	11.0	10.5
Park Reservoir	1/31	53	12.8	16.2	14.6
<u>Uncompahgre River</u>					
Ironton Park	1/30	42	12.4	15.1	8.0
Red Mountain Pass	1/30	82	23.0	18.8	19.0
Telluride (B)	1/30	28	7.0	7.8	4.7
COLORADO BASIN					
<u>Blue River</u>					
Blue River	1/29	29	5.9	6.3	5.2
Fremont Pass	1/29	42	10.6	11.0	9.8
Frisco	1/29	28	5.4	4.9	4.4
Grizzly Peak	1/29	51	12.2	13.5	10.6
Hoosier Pass (B)	1/29	37	9.6	8.6	8.0
Shrine Pass	1/29	49	11.9	13.4	10.3
Snake River	1/29	24	4.4	6.2	5.2
Summit Ranch	1/29	20	3.9	6.0	---

SNOW COURSE	CURRENT INFORMATION			PAST RECORD	
	DATE OF SURVEY	SNOW DEPTH (INCHES)	WATER CONTENT (INCHES)	WATER CONTENT (INCHES)	
				LAST YEAR	AVG. 58-72
<u>Colorado River</u>					
Arrow	1/29	39	8.6	11.2	7.5
Berthoud Pass	1/28	45	10.6	11.4	9.4
Berthoud Summit	1/29	49	13.3	14.3	11.4
Cooper Hill				9.0	6.9
Fiddler Gulch	NS			---	9.0
Glenmar Ranch	1/28	24	5.4	7.3	5.1
Gore Pass	1/29	34	8.6	7.4	6.2
Grand Lake	1/29	31	5.2	7.8	4.9
Lake Irene	1/28	52	12.5	15.4	13.8
Lapland	1/27	30	7.0	7.9	6.6
Lulu	NS			---	---
Lynx Pass	1/29	40	9.0	7.7	7.6
McKenzie Gulch	1/28	26	4.0	6.5	4.1
Middle Fork	1/29	28	6.3	9.3	5.7
Milner	1/28	38	8.7	10.0	---
North Inlet	1/29	31	7.0	7.0	5.1
Pando	1/29	30	5.3	6.2	6.0
Phantom Valley	1/28	52	7.5	7.0	6.5
Ranch Creek	1/29	28	5.7	8.2	5.6
Tennessee Pass (B)	1/30	31	6.1	5.9	6.5
Vail Pass	1/29	49	10.5	13.3	10.4
Vasquez	1/30	35	7.7	9.8	7.7
<u>Roaring Fork River</u>					
Aspen	1/28	46	10.9	12.8	10.0
Chapman	NS			---	---
Independence Pass				10.1	9.7
Ivanhoe	1/28	45	11.4	14.3	10.2
Kiln	1/28	37	8.0	10.0	---
Last Chance	NS			---	---
Lift	1/28	40	10.1	13.4	10.1
McClure Pass	1/29	42	10.8	13.3	11.1
Nast	1/29	26	5.1	6.8	4.3
North Lost Trail	1/29	42	10.6	12.8	10.0
<u>Williams Fork River</u>					
Glenmar Ranch	1/28	24	5.4	7.3	5.1
Jones Pass	1/28	40	9.2	12.0	8.7
Middle Fork	1/29	28	6.3	9.3	5.7
<u>Willow Creek</u>					
Granby	1/28	24	4.2	7.1	4.7
Willow Creek Pass	1/28	30	7.1	10.0	7.7
<u>Plateau Creek</u>					
Mesa Lakes	1/30	41	11.3	11.0	10.5
Park Reservoir	1/31	53	12.8	16.2	14.6
Trickle Divide	1/31	54	13.2	17.0	16.0
YAMPA BASIN					
<u>Elk River</u>					
Elk River	1/30	47	12.0	14.7	11.4
Hahn's Peak	1/30	43	10.1	13.1	---
<u>White River</u>					
Burro Mountain	1/29	53	13.2	10.9	11.5
Rio Blanco	1/28	41	9.5	11.7	9.0
<u>Yampa River</u>					
Bear River	NS			---	---
Buffalo Pass	NS			34.0	---
Columbine Lodge (B)	1/30	64	18.5	19.7	14.3
Dry Lake	1/29	52	14.8	---	12.0
Lynx Pass (B)	1/29	40	9.0	7.7	7.6
Rabbit Ears	1/30	68	20.2	19.4	16.1
Yampa View	1/30	47	13.4	13.0	9.8

NOTE: NS - No Survey  
(B) - On Adjacent Drainage

## APPENDIX II

### SOIL MOISTURE MEASUREMENTS as of February 1, 1975

STATION	DATE OF SURVEY	CAPACITY (INCHES)	THIS YEAR	LAST YEAR	AVG. ALL DATA
NORTH PLATTE BASIN					
<u>North Platte River</u>					
Muddy Pass	10/11/74	11.1	6.2	8.5	6.6
Willow Pass	9/30/74	9.5	4.3	6.1	6.9
SOUTH PLATTE BASIN					
<u>Boulder Creek</u>					
Alpine Camp	10/01/74	6.9	3.1	3.1	3.8
<u>Big Thompson River</u>					
Beaver Dam	10/01/74	7.1	3.6	3.3	4.1
Guard Station	10/01/74	6.9	3.2	2.9	4.8
Two Mile	10/01/74	9.1	4.4	4.5	5.5
<u>Clear Creek</u>					
Clear Creek	1/03/75	9.5	5.3	7.1	6.8
Hoop Creek	10/25/74	4.9	2.5	2.4	2.9
<u>Cache La Poudre River</u>					
Feather	10/04/74	10.1	3.9	5.1	4.7
Laramie Road	10/03/74	12.4	6.2	7.4	7.8
<u>South Platte River</u>					
Hoosier Pass	10/08/74	7.8	3.6	5.5	4.9
Kenosha Pass	10/08/74	4.4	2.4	3.3	2.6
ARKANSAS BASIN					
<u>Arkansas River</u>					
Garfield	9/27/74	6.7	3.6	5.2	4.0
Leadville	9/30/74	7.8	3.5	4.1	4.1
Twin Lakes Tunnel	9/30/74	4.5	1.5	2.2	2.1
RIO GRANDE BASIN - COLORADO					
<u>Conejos River</u>					
Mogote	11/13/74	10.7	5.4	4.7	5.3
<u>Rio Grande</u>					
Bristol View	11/14/74	6.1	2.5	2.3	4.0
La Veta	11/13/74	11.9	5.1	6.4	7.6
RIO GRANDE BASIN - NEW MEXICO					
<u>Rio Chama</u>					
Bateman	No Report	6.7	---	2.7	2.5
Chamita	No Report	8.0	---	4.4	2.6
<u>Rio Grande</u>					
Aqua Piedra	1/22/75	7.2	3.7	3.5	3.6
Big Tesuque	10/16/74	3.7	1.7	2.0	1.6
Rio En Medio	10/16/74	3.5	1.2	1.6	1.4
Taos Canyon	1/23/75	3.3	2.1	2.2	2.2
<u>Red River</u>					
Red River Summit	1/27/75	4.8	1.4	1.5	2.1

ALL PROFILES 4 FEET DEEP

## APPENDIX II

### SOIL MOISTURE MEASUREMENTS as of February 1, 1975

STATION	DATE OF SURVEY	CAPACITY (INCHES)	THIS YEAR	LAST YEAR	AVG. ALL DATA
ANIMAS - SAN JUAN BASINS					
<u>Animas River</u>					
Cascade	No Report	9.1	---	3.8	6.0
Mineral Creek	No Report	5.7	---	2.9	3.4
Molas Lake	No Report	9.4	---	7.1	4.8
<u>Dolores River</u>					
Dolores	10/30/74	19.6	5.1	2.0	7.7
Lizard Head	10/30/74	11.8	1.9	1.2	6.9
Rico	10/30/74	13.8	2.8	1.4	9.6
GUNNISON BASIN					
<u>Gunnison River</u>					
King	9/27/74	3.3	2.0	2.6	2.0
COLORADO BASIN (Mainstem)					
<u>Blue River</u>					
Blue River	10/08/74	4.2	2.3	3.3	2.8
<u>Colorado River</u>					
Berthoud Pass	10/25/74	3.9	3.3	3.2	2.8
Gore	9/30/74	4.9	2.1	2.4	3.1
Grand Mesa	No Report	12.5	---	11.3	10.3
Ranch Creek	10/25/74	8.7	5.0	4.9	5.8
Vail	No Report	12.3	---	7.1	7.0
<u>Roaring Fork River</u>					
Placita	12/30/74	9.3	3.7	4.4	5.5
YAMPA BASIN					
<u>Yampa River</u>					
Hahn's Peak	10/11/75	19.0	7.2	8.6	8.4

ALL PROFILES 4 FEET DEEP



# LIST of COOPERATORS

The following organizations cooperate in snow surveys for the Colorado, Platte, Arkansas and Rio Grande watersheds. Many other organizations and individuals furnish valuable information for the snow survey reports. Their cooperation is gratefully acknowledged.

## STATE

Colorado State Engineer  
New Mexico State Engineer  
Nebraska State Engineer  
Colorado State University Experiment Station  
Rocky Mountain Forest and Range Experiment Station

## FEDERAL

Department of Agriculture

Forest Service  
Soil Conservation Service

Department of Interior

Bureau of Reclamation  
Geological Survey  
National Park Service  
Indian Service

Department of Commerce

NOAA, National Weather Service

Defence Department

Army Engineer Corps

Atomic Energy Commission

## INVESTOR OWNED UTILITIES

Colorado Public Service Company  
Public Service Company of New Mexico

## MUNICIPALITIES

City of Denver                      City of Greeley  
City of Boulder                      City of Fort Collins

## WATER USERS ORGANIZATIONS

Arkansas Valley Ditch Association  
Colorado River Water Conservation District

## IRRIGATION PROJECTS

Farmers Reservoir and Irrigation Company  
San Luis Valley Irrigation District  
Santa Maria Reservoir Company  
Costilla Land Company  
Uncompahgre Valley Water Users' Association  
Twin Lakes Reservoir and Canal Company  
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